DNREC Well Viewer

Getting Started

Version 1.1



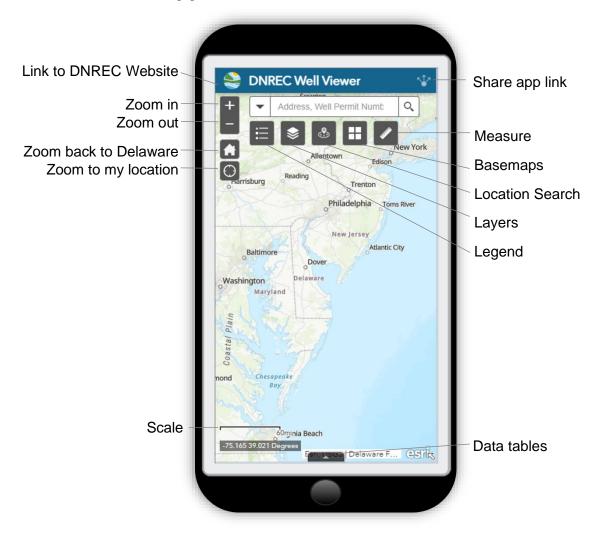


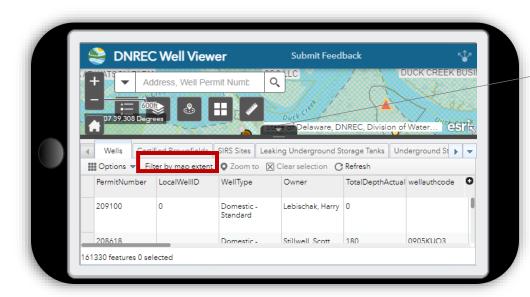
Breakdown of App Tools: Legend Tool

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Breakdown of App Tools





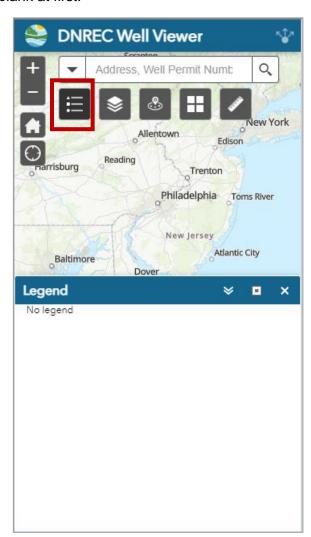
Pull up on tab to see well data.

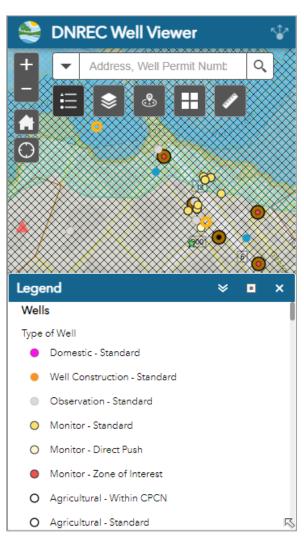
Click Filter by map extent to show all wells and not just those that are not covered by the table.

Getting Started with DNREC Well Viewer

Legend Tool

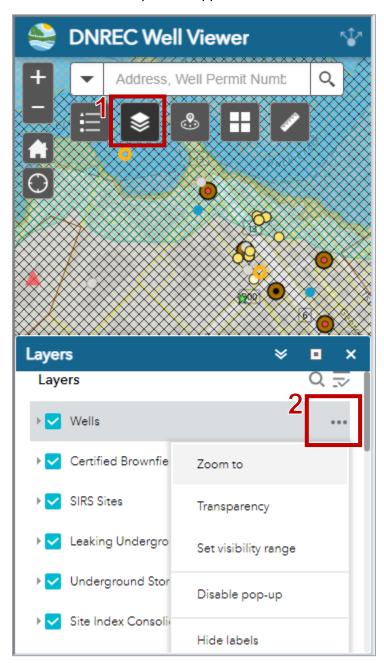
The legend only shows the layers that are currently on the map. Zoom into an area if it appears blank at first.





Layer Tool

The layers tool allows you to customize the map. Change the menu settings to determine what information shows up in the app.



Click on the ••• menu button to see available options

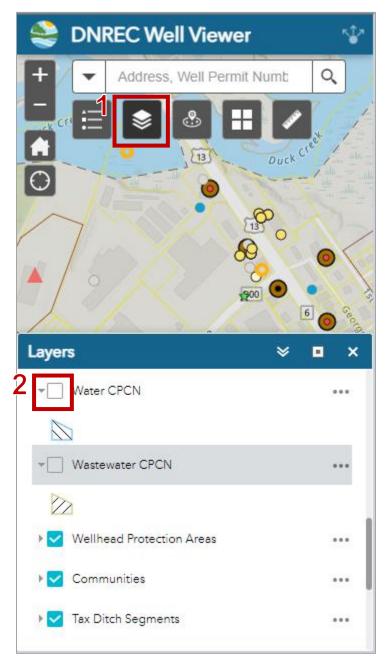
Click on the **Zoom to**button to zoom the extent
of the statewide layer

Use the **Transparency** button to make a layer more see through.

To stop a layer from loading when you are zoomed in or out adjust the **visibility range**.

Turn off or on the **labels** for a specific layer.

The layers tool allows you to uncheck layers to turn them off.



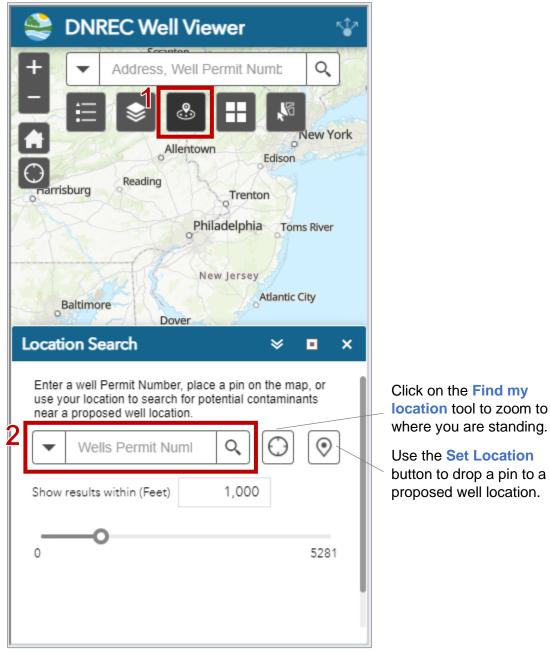
Click on the **blue checkbox** button to turn a layer off.

Click the triangle button to the left of the check box to show what that layer looks like on the map.

Location Review Tool

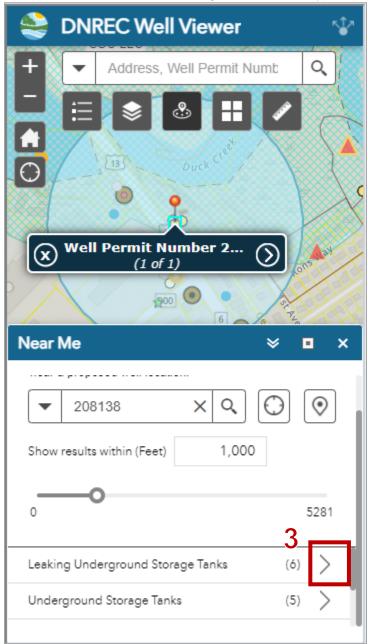
To check for nearby potential sources of contamination use the Location Review tool.

- 1. Click on the Location Search tool.
- 2. Enter the Well Permit Number or site address and hit enter.



NOTE: The default distance for DNREC contamination reviews is 1,000 feet.

3. Use the **arrow buttons** to the right of each site type to see more information.



4. Click into an item in the list again to review more information about a specific site. **DNREC Well Viewer** Q Address, Well Permit Numb Well Permit Number 2... (1 of 1) 1900 Near Me ¥ × 208138 1,000 Show results within (Feet) 0 5281 Leaking Underground Storage Tanks (6)262.87 ft Leaking Underground Storage Tanks: Shor. sites. Leaking Underground Storage Tanks

Leaking Underground Storage Tanks: Shore Stop #269

Smyrna

For more information visit

https://dnrec.alpha.delaware.gov/waste.

Use the scrolling bar on the side to review all the

Basemap Tool

To switch the map beneath the data click on the Basemap tool.



Click on the arrows to minimize a tool on your screen.

Measure Tool

The select tool allows you to highlight a subset of the data shown on the map.

Click on the Measure tool



2. Click on the green box with a ruler for area, the ruler with dimension arrows for distance, and the map with a crosshair for coordinates.



3. For distance click on the map for the starting point and <u>double click</u> to end the measurement result at the ending point.

Data Resources Cheat Sheet

FirstMap Data

https://firstmap.delaware.gov/



| Symbology | Layer Name | Description |
|--|------------|--|
| Private Wells | Non-Public | Location of wells that are not |
| Domestic - Standard | Wells | associated with a Public Water System. |
| Irrigation - Standard | | • |
| | | |
| Monitoring Wells | | |
| Monitor - Standard | | |
| Observation - Standard | | |
| Monitor - Direct Push | | |
| Monitor - Zone of Interest | | |
| Agriculture Wells | | |
| Agricultural - Within CPCN | | |
| Agricultural - Standard | | |
| Geothermal Wells | | |
| Geothermal - Closed Loop | | |
| Geothermal - Recharge | | |
| Geothermal - Supply | | |
| Geothermal - Direct Exchange | | |
| Remediation | | |
| Remediation I - Injection | | |
| Remediation R - Recovery | | |
| Construction | | |
| Construction | | |
| O Dewater - Standard | | |
| O Soil Borings - Standard | | |
| Other | | |
| | | |

| Symbology | Layer Name | Description |
|---|---------------|---|
| Cymbology | Delaware | Boundaries of service area |
| Water CPCN | Water Service | boundaries of Service area boundaries for Certificate of Public |
| | Areas | Convenience and Necessity (CPCN) |
| Wastewater CPCN | Aicas | on file with the Public Service |
| | | Commission. |
| | Wellhead | Delineated wellhead protection areas |
| | Protection | around public water supply wells. |
| | Areas | Wellhead areas are either modeled |
| | | using specific groundwater modeling |
| | | software or a fixed radius from the |
| | | well is applied. The statewide |
| | | minimum fixed radius is 150 feet. |
| | | |
| | 0.14 | |
| | Saltwater | The saltwater tidal boundary as |
| | Tidal Buffer | determined for Delaware's updated |
| | | National Wetlands Inventory for tidal wetlands. |
| | Biosolids and | This layer includes land application |
| Zone A - Active Site | Residuals | sites where non-hazardous waste |
| Zone B - Active Site | rtooradaro | residuals were beneficially reused via |
| Zone A - Inactive Site | | land application. For sites where |
| Zone B - Inactive Site | | beneficial reuse of wastewater via |
| | | spray irrigation has been approved |
| | | please see the Spray Irrigation layer. |
| | Site Index | Sites that have been identified as |
| Animal Operations | Consolidated | part of the Source Water Assessment |
| Combined Sewer Overflow | | and Protection Program that may |
| Dredge Spoil Disposal Areas | | present as a potential source of |
| Hazardous Waste Generators | | contamination in groundwater. |
| 📤 Landfills & Dumps | | |
| ★ Large On-site Septic Systems Waste Water Outfalls | | |
| | | |
| Pesticide Loading, Mixing & Storage | | |
| Salvage Yards Spray Irrigation Sites | | |
| Tire Piles | | |
| | | |
| | | |
| | Large | Sites where wastewater is applied to |
| Septic-UIC | Systems | the ground. |
| 55,55 | | |
| Septic-NonUIC | | |
| Spray Irrigation | | |
| | | |
| | | |

| Symbology | Layer Name | Description |
|--------------------------|------------------------------------|---|
| DOW-RPS,1 Zone | Groundwater Management Zones | Groundwater Management Zones or "GMZs" delineate areas where the potential for degraded groundwater |
| HSCA,1 Zone | 201100 | quality exists. Some GMZs place |
| SHWMB,1 Zone | | formal restrictions on well installations and groundwater usage. |
| TMB,1 Zone | | The GMZ coverage dates back to the 1990s, but it is periodically updated. |
| RS, 1 Zone | | |
| RS, 1 Zone | | |
| Multiple,Zone A | | |
| Multiple,Zone B | | |
| RS,Zone A | | |
| RS,Zone A | | |
| RS,Zone B and Zone C | | |
| RS,Zone B and Zone C | | |
| TMB,Zone A | | |
| TMB,Zone B | | |
| | | |
| No Wells Zone A Zone B | Sussex County Landfills | Sussex County Landfill Groundwater Management Zones (GMZs). The GMZs consist of three (3) concentric areas: No Wells zone; Zone A - unconfined wells may be pumped no more than 10 gpm; and Zone B - unconfined wells may be pumped no more than 100 gpm. |
| • | Certified Brownfields | A brownfield is a property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. |
| A | SIRS Site | Site Investigation and Restoration Section (SIRS) program site location. |

| Symbology | Layer Name | Description |
|--|--------------------|--|
| | Underground | Location of Underground Storage |
| | Storage Tank | Tanks (UST). Tank locations are |
| | | updated as part of the daily business |
| • | | processes within the Division of |
| | Leaking | Waste and Hazardous Substances. Location of Leaking USTs. Tank |
| | Underground | locations are updated as part of the |
| • | Storage Tank | daily business processes within the |
| | | Division of Waste and Hazardous |
| | | Substances. |
| | Solid and | Solid and Hazardous Waste Sites |
| ★ Hazardous Waste Corrective Action Site | Hazardous Waste | from the Environmental Protection Agency. |
| ★ Hazardous Waste Generator | vvasie | Agency. |
| ★ Infectious Waste | | Waste site locations are updated by |
| ☆ Salvage Yard | | the EPA's RCRA reporting data. |
| ☆ Solid Waste Landfill | | |
| ★ Solid Waste Recycling | | |
| ★ Solid/Infectous Waste Transfer Station | | |
| ★ Unpermitted Landfills/Dumps | | |
| _ | SIRS Projects | Site Investigation and Restoration |
| Б | | Section (SIRS) program project boundary. |
| | Tax Ditches | A tax ditch is a governmental |
| | | subdivision of the State. It is a |
| Extent of Right-of-Way | | watershed-based organization of |
| | | landowners formed by a prescribed legal process in Superior Court. |
| Pond Feature | | |
| Tax Ditch Channel | | |
| | | |

Hydrology

https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Hydrology

| Symbology | Layer Name | Description |
|--------------------------------|--------------------|--|
| FEMA Flood Maps | FEMA Flood Maps | The National Flood Hazard Layer (NFHL) data incorporates all Flood Insurance Rate Map (FIRM) |
| FLD_ZONE | | databases published by the Federal |
| A | | Emergency Management Agency (FEMA), and any Letters of Map |
| AE | | Revision (LOMRs) that have been |
| AE, FLOODWAY | | issued against those databases since their publication date. It is updated on |
| AO | | a monthly basis. The FIRM Database |
| VE VE | | is the digital, geospatial version of the flood hazard information shown |
| X, 0.2 PCT ANNUAL CHANCE FLOOD | | on the published paper FIRMs. This file is georeferenced to the Earth's |
| HAZARD | | surface using the Geographic |
| | | Coordinate System (GCS) and North American Datum of 1983. |

Delaware River Basin Commission Data

https://www.state.nj.us/drbc/basin/map/GIS.html

| Symbology | Layer Name | Description |
|-----------|----------------------------|---|
| | DE River Basin Boundary | The geographic extent of land areas that drain into the Delaware River. |

Questions and Answers

What is a Contamination Review?

When a well permit is received the proposed location of the well is passed through a series of spatial queries that determine if a contamination review is required by a hydrologist on staff. The hydrologist reviews the location with respect to known information about the site in order to make recommendations to the applicant.

The information about past groundwater contamination associated with a site is ranked using the Maximum Groundwater Contaminant Potential Rating (Max GW). These ratings range from 0 (Negligible) to 5 (High) and sites that have not been assigned a rating are given a Max GW value of –1 (Unknown).

Ratings of -1, 5, or 6 are used in the spatial query that results in a hydro-contamination review. All site types below are used to trigger a flag that there Is a Potential Contaminant in Vicinity (PCIV).

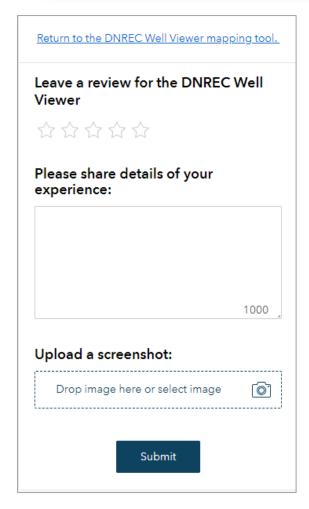
| Groundwater Management Zone | If point falls within Groundwater Management Zone polygon |
|--|--|
| Leaking Underground Storage Tank | If within a 1000 ft buffer |
| Biosolids and Residuals | If point falls within polygon of field or Groundwater Management Zone |
| Spray Irrigation | If point falls within polygon of field or Groundwater Management Zone |
| Sussex County Landfills | If point falls within polygon of landfill or Groundwater Management Zone |
| SIRS Site (points) | If within a 1000 ft buffer |
| Site Index Consolidated | If within a 1000 ft buffer |
| Underground Storage Tank | If within a 1000 ft buffer |

Questions and Answers: How do I report bugs?

How do I report bugs?

The Submit Feedback link is in the initial pop-up and in the blue header of the app. Depending on the screen size of your mobile device the link may not come up. Try rotating the device horizontal and see if the link appears.

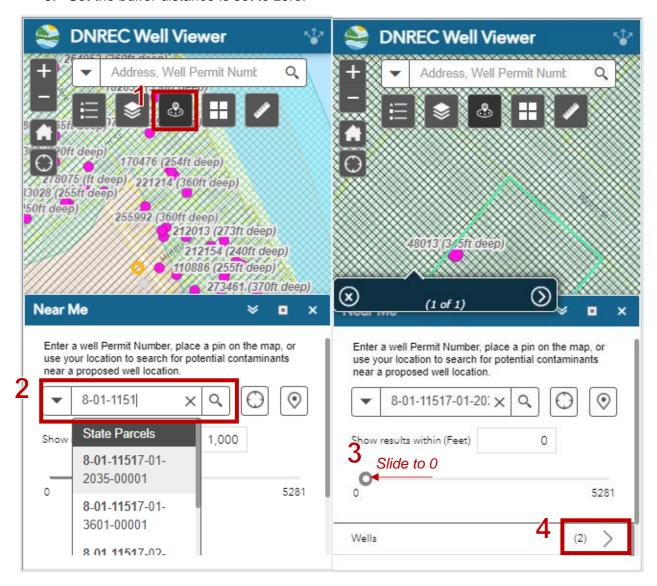




Once the feedback form appears feel free to leave your contact information in the text box for a DNREC representative contact you regarding any technical issues.

How do I see what wells are on my property?

- 1. Click on the Location Search tool
- 2. Search for your parcel
- 3. Set the buffer distance is set to zero.



4. Click into the search results to see what wells are on your property.

How do I see the well permit details?

To view the well permit details at full screen **click on the well** on the map and then click on the arrow.



Use the arrows in the blue header to scroll through site records.



How do I find my parcel number?

Use the My Location button or address search to navigate to a property. Then click on the site and scroll through the pop-ups until you see the parcel details.

